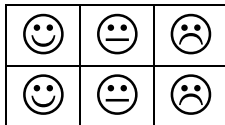


PERCENTAGE and FRACTION CALCULATIONS

A: I can calculate percentages of amounts with or without a calculator.



Without a calculator:

20% of £134

75% of 525kg

$33\frac{1}{3}\%$ of 87ml

With a calculator:

$15\frac{1}{2}\%$ of £62.55

77% of 902 tonnes

43.4% of 280 metres

B: I can calculate percentage increase and decrease.



Increase £140 by 32%.

Decrease 97 kilometres by 55%.

C: I can express one number as a percentage of another.



Dave got 50 out of 75 in a History test and 40 out of 64 in an English test. What subject did he do better in?

An antique painting was bought for £2300. Two years later it was sold for £3600. What was the percentage profit?

D: I can calculate compound interest, appreciation and depreciation

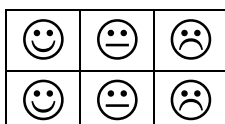


How much is in an account after 5 years if £2780 is invested at 3% per annum.

A flat cost £87 430. It appreciates at 5% per annum. Calculate its value in 3 years.

A car cost £19 650 when new. It depreciates 20% in the first year, 15% in the second and 12% in the third year. How much is the car worth after 3 years?

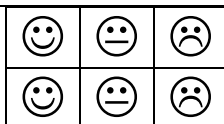
E: I can calculate the original amount after a percentage increase or decrease.



A shop is having a sale with 20% of everything. A bicycle cost £168 in the sale. How much would it cost before the sale?

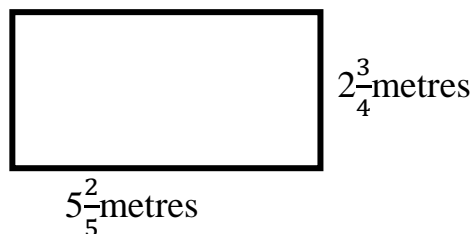
A TV cost £465 including VAT. Calculate the cost excluding VAT.

F: I can use my knowledge of operations of fractions to solve problems.



Two fifths of a pack of butter is used to make a cake. How many packs are needed to make 7 cakes?

Calculate the area of carpet need for this rectangular room.



Calculate the distance around the edge of the room.

A book shelf is $32\frac{1}{4}$ cm long.

How many files of width $1\frac{3}{5}$ cm will fit on the shelf?

In an election $\frac{3}{5}$ of the population voted.

$\frac{3}{4}$ of those who voted, voted for the winning party.

What fraction of the population voted for the winning party?

A manager has spent $\frac{5}{8}$ of his budget. He has £1200 remaining. What was his full budget?